

IN THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of disspreading a target GPS spread spectrum signal comprising pseudorandom noise (PRN) code sequences and received by a GPS receiver, the method comprising the steps of:

providing Doppler information relating to an estimate of ~~[[the]]~~ a variation in Doppler shift as observed on the target signal by the GPS receiver and which is ~~attributeable~~ attributable to ~~[[the]]~~ motion of ~~[[the]]~~ a GPS satellite;

modifying the target signal as a function of the Doppler information; and

correlating the target signal as modified with a reference signal containing corresponding PRN code sequences;

wherein, in the course of a single dwell, the correlation is modified as a function of the Doppler information.

2. (Canceled).

3. (Canceled).

4. (Currently Amended) A method according to claim 1, wherein the estimate of the variation in Doppler shift is calculated based on ~~[[the]]~~ a last known position fix of the GPS receiver.

5. (Currently Amended) A method according to claim 1, wherein the GPS receiver is incorporated in a mobile communications device adapted to communicate with a ~~nearby~~ communications base station; and

wherein the estimate of the variation in Doppler shift is calculated based on a position fix provided by the communications base station.

6. (Currently Amended) A method according to claim 5, wherein the position fix corresponds to ~~[[the]]~~ a location of the communications base station.

7. (Currently Amended) A GPS receiver able to despread a GPS spread spectrum signal received by the GPS receiver, comprising a processor which:

provides Doppler information relating to an estimate of ~~[[the]]~~ a variation in Doppler shift as observed on the target signal by the GPS receiver and which is attributable to ~~[[the]]~~ motion of ~~[[the]]~~ a GPS satellite;

modifies the target signal as a function of the Doppler information; and

correlates the target signal as modified with a reference signal containing corresponding PRN code sequences, wherein, in the course of a single dwell, the correlation is modified as a function of the Doppler information.

8. (Currently Amended) A mobile telephone comprising:

a GPS receiver able to despread a GPS spread spectrum signal received by the GPS receiver, the GPS receiver comprising a processor which:

provides Doppler information relating to an estimate of ~~[[the]]~~ a variation in Doppler shift as observed on the target signal by the GPS receiver and which is attributable to ~~[[the]]~~ motion of ~~[[the]]~~ a GPS satellite;

modifies the target signal as a function of the Doppler information; and

correlates the target signal as modified with a reference signal containing corresponding PRN code sequences, wherein, in the course of a single dwell, ~~[[he]]~~ the correlation is modified as a function of the Doppler information.

9. (New) The method of Claim 1, wherein modifying the target signal as a function of the Doppler information comprises mixing the target signal with a signal representing the variation in Doppler shift.

10. (New) The method of Claim 1, further comprising searching for the target signal using a variable frequency signal; and

wherein modifying the target signal as a function of the Doppler information comprises adjusting the variable frequency signal based on the variation in Doppler shift.

11. (New) The GPS receiver of Claim 7, wherein the estimate of the variation in Doppler shift is calculated based on a last known position fix of the GPS receiver.

12. (New) The GPS receiver of Claim 7, wherein:
the GPS receiver is incorporated in a mobile communications device adapted to communicate with a communications base station; and

the estimate of the variation in Doppler shift is calculated based on a position fix provided by the communications base station.

13. (New) The GPS receiver of Claim 12, wherein the position fix corresponds to a location of the communications base station.

14. (New) The GPS receiver of Claim 7, wherein the processor is capable of modifying the target signal as a function of the Doppler information by mixing the target signal with a signal representing the variation in Doppler shift.

15. (New) The GPS receiver of Claim 7, wherein:
the processor is further capable of searching for the target signal using a variable frequency signal; and

the processor is capable of modifying the target signal as a function of the Doppler information by adjusting the variable frequency signal based on the variation in Doppler shift.

16. (New) The GPS receiver of Claim 7, wherein the processor comprises:
a carrier wave generator capable of generating in-phase and quadrature phase carrier wave signals;
a first plurality of mixers capable of mixing the target signal with the in-phase and quadrature phase carrier wave signals;
a code generator capable of generating early, prompt, and late replica codes;
a second plurality of mixers capable of mixing outputs of the first plurality of mixers with the early, prompt, and late replica codes; and
a plurality of integrators capable of integrating outputs from the second plurality of mixers.

17. (New) The mobile telephone of Claim 8, wherein the estimate of the variation in Doppler shift is calculated based on a last known position fix of the GPS receiver.

18. (New) The mobile telephone of Claim 8, wherein:
the mobile telephone is adapted to communicate with a communications base station; and
the estimate of the variation in Doppler shift is calculated based on a position fix provided by the communications base station.

19. (New) The mobile telephone of Claim 18, wherein the position fix corresponds to a location of the communications base station.

20. (New) The mobile telephone of Claim 8, wherein the processor is capable of modifying the target signal as a function of the Doppler information by mixing the target signal with a signal representing the variation in Doppler shift.

21. (New) The mobile telephone of Claim 8, wherein:
the processor is further capable of searching for the target signal using a variable frequency signal; and
the processor is capable of modifying the target signal as a function of the Doppler information by adjusting the variable frequency signal.

22. (New) The mobile telephone of Claim 8, wherein the processor comprises:
a carrier wave generator capable of generating in-phase and quadrature phase carrier wave signals;
a first plurality of mixers capable of mixing the target signal with the in-phase and quadrature phase carrier wave signals;
a code generator capable of generating early, prompt, and late replica codes;
a second plurality of mixers capable of mixing outputs of the first plurality of mixers with the early, prompt, and late replica codes; and
a plurality of integrators capable of integrating outputs from the second plurality of mixers.